

File

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State of California  
AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-149

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TCE855EJDARW (093U)	14 (855)	Powertrain Control module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TCE855EJDARW (093U)	0.4	1.2	4.3	0.09

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

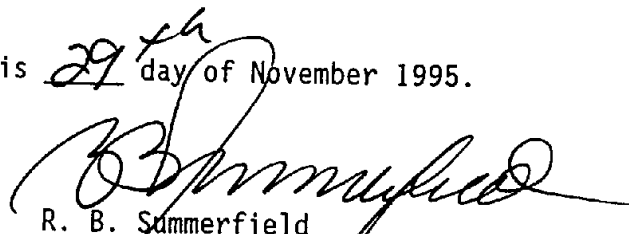
CUMMINS ENGINE COMPANY, INC.

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 29<sup>th</sup> day of November 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

E.O.# A-21-149Page 1 of 11996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (093U) TCE855EJDARW  
 Displacement: /14 Liters / 855 Cubic Inches  
 Maximum Rated Power: 500 HP @ 1800 RPM Engine Configuration: I-6  
 Ignition: Compression X Compression with Glow Plug        Spark         
 Fuel Type(s): Dedicated X Flex-Fuel        Dual-Fuel        Diesel X M100        M85         
                   CNG        LNG        LPG        Other (specify)         
 Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X  
 Primary Intended Service Class: LHD        MHD        HHD X Urban Bus         
 Exhaust ECS (include MFI, TC, CAC): PCM (TC, CAC)  
 (use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
N14-500E (1844)	500 @ 1800	279 (169.6)	3083848 3087734 3087558	3084473	N/A	N/A
N14-500E (1844)	483 @ 1800	270 (164.0)	Same	Same	Same	Same
N14-460E (1844)	460 @ 1800	250 (151.8)	Same	Same	Same	Same
N14 ESPIII (1844)	400 @ 1800	214 (129.6)	Same	Same	Same	Same
N14-435E (1844) (1809)	435 @ 1800	234 (141.8)	Same	Same	Same	Same
N14-410E (1844) (1809)	410 @ 1800	220 (133.2)	Same	Same	Same	Same
N14-445E (1809)	445 @ 1800	241 (146.2)	Same	Same	Same	Same
N14-500E (2003)	500 @ 1800	275 (167)	3087788 3095086 3609796	3084473	N/A	N/A

Date Issued: \_\_\_\_\_

Revisions: \_\_\_\_\_

SUBMITTED

NOV 15 1995